

You are cordially invited to attend the MSU Mathematics Education Colloquium



Dr. Jinfa Cai

Dr. Jinfa Cai is presenting

“Mathematical Problem-Posing Based Learning (P-PBL): Theoretical Considerations and Empirical Research”

When: Monday, September 28th, 2026

Where: Room B243 Wells Hall (MSU Campus) or Zoom

Time: 3:30pm-5:00pm (EDT)

Zoom Information: <https://msu.zoom.us/j/93669084156>

Meeting ID: 936 6908 4156; **Passcode:** PRIME

Abstract: There has been increased emphasis on integrating problem posing into curriculum and instruction with the promise of potentially providing more and higher quality opportunities for students to learn mathematics as they engage in problem-posing activities. In this presentation, I will first provide a careful analysis of theoretical perspectives why P-PBL works for improving students' learning. Then I will provide empirical results to show not only the actual effects of P-PBL on students' learning, but also why the P-PBL instructional intervention can foster students' learning of mathematics. I will end this presentation by discussing the future directions of problem-posing research

Bio: Dr. Jinfa Cai is a professor and the Curtis D. Robert Endowed Mathematics Education Chair at Texas A&M University. Before he joined TAMU in summer 2026, he was the Kathleen and David Hollowell Professor at the University of Delaware. He is an elected member of the National Academy of Education (NAEd) and a Fellow of American Educational Research Association (AERA). He served as the Editor-in-Chief for the Journal for Research in Mathematics Education as well as the Program Director at the USA National Science Foundation (NSF). In 2017, he received the University of Delaware's College of Arts and Sciences' Outstanding Scholarship Award, which is historical for a mathematics education researcher to receive such a prestigious award. In 2018, he received the Webber Award, honoring his significant contribution to the State of Delaware's mathematics education.

Sponsored by Program in Mathematics Education